

FIG. 1

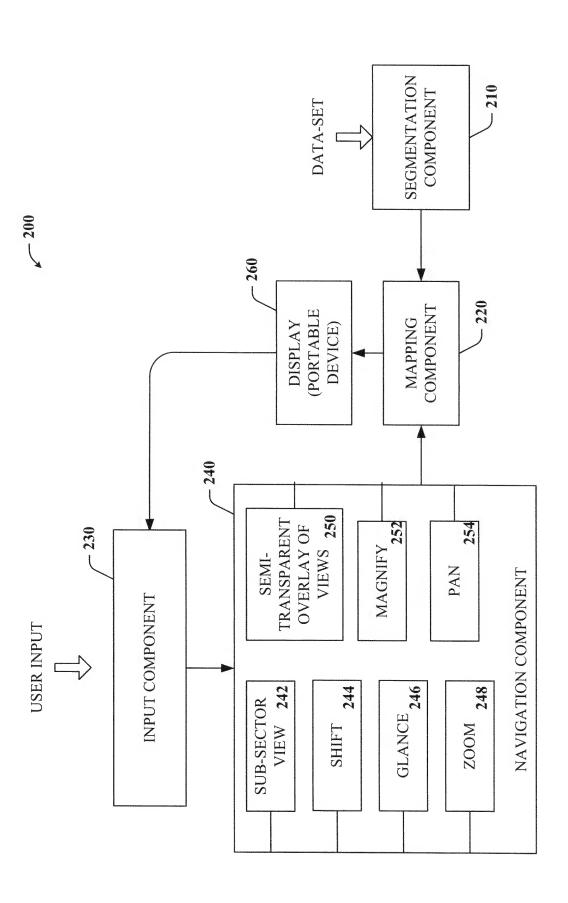
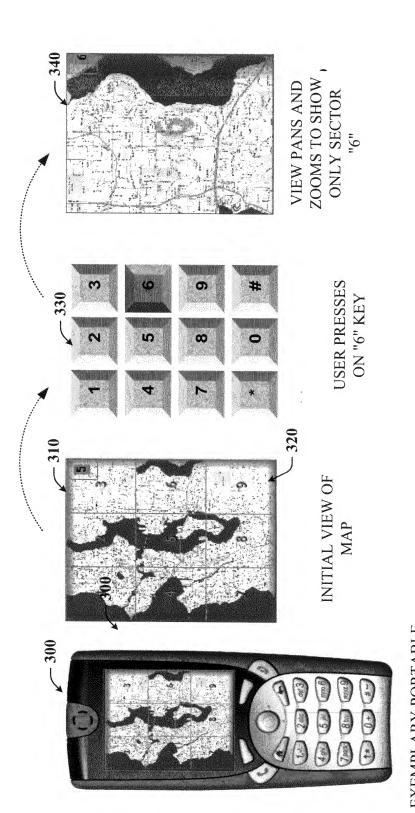
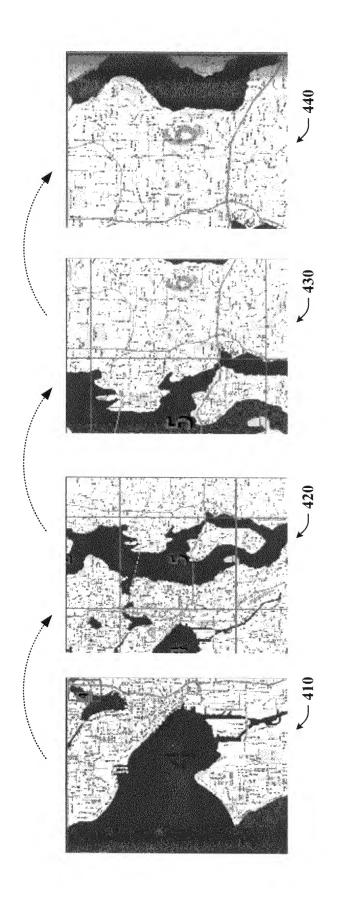


FIG. 2



EXEMPLARY PORTABLE
DEVICE WITH KEYPAD USING SUBJECT NAVIGATION
SYSTEM

FIG. 3



VIEW ZOOMS OUT DURING PAN FROM ONE SIBLING VIEW (SECTOR 4) TO ANOTHER (SECTOR 6)

FIG. 4

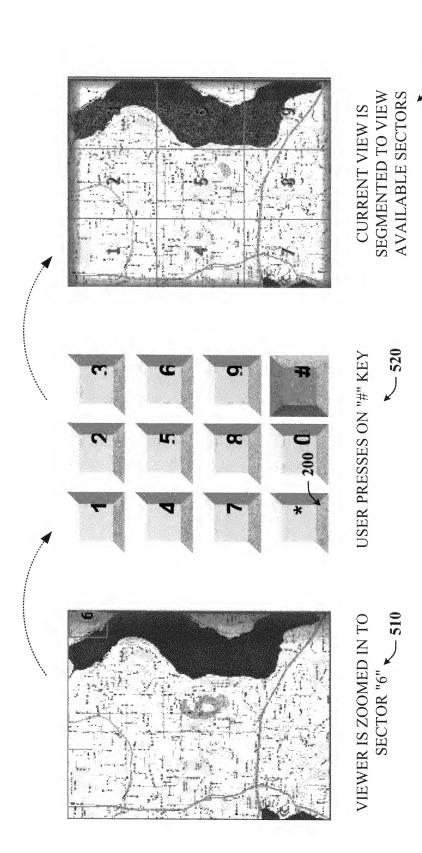
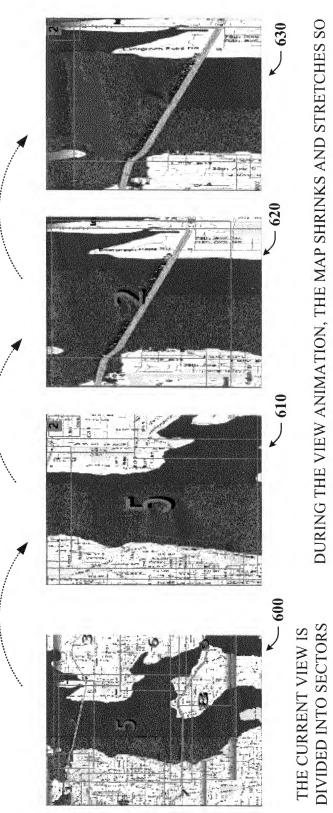


FIG. S



THAT ARE OPTIMIZED

DURING THE VIEW ANIMATION, THE MAP SHRINKS AND STRETCHES SO THAT THE ASPECT OF THE SELECTED CHILD VIEW FILLS THE FRAME

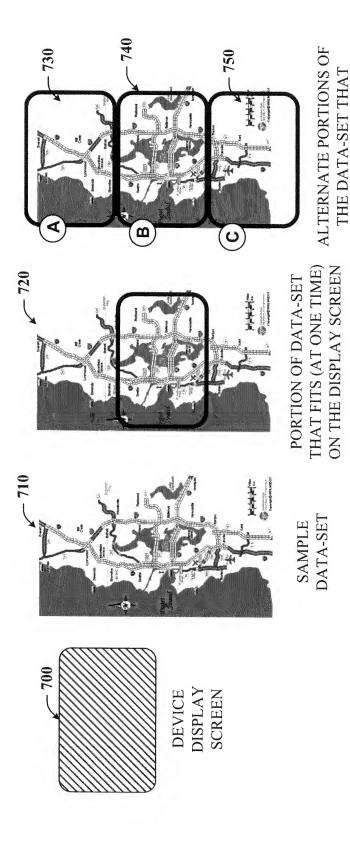
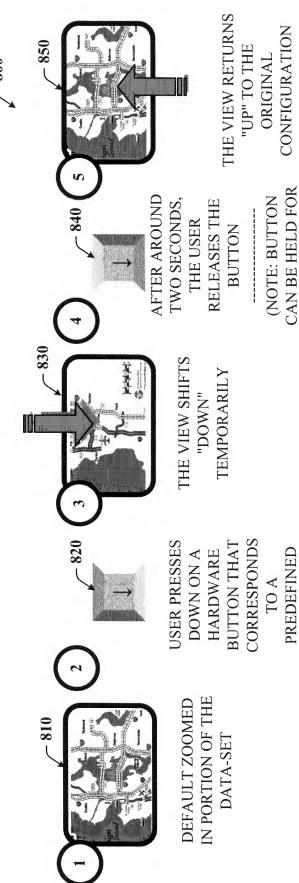


FIG. 7

CAN BE AVAILABLE FOR

VIEWING

SEQUENCE OF EVENTS THAT HAPPEN WHEN USER PRESSES-AND-HOLDS A BUTTON THAT IS ASSIGNED TO A PARTICULAR VIEW



BUTTON

"UP" T

"UP" T

"UP" T

"UP" T

ORIG

CAN BE HELD FOR

A TIME SPAN

COMMENSURATE

OR LONG ENOUGH

TO DISTINGUISH

BETWEEN A USER

TAPPING A

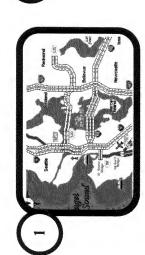
BUTTON AND

HOLDING-AND
RELEASING A

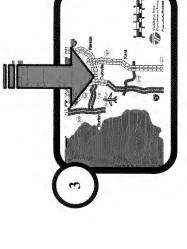
BUTTON)

VIEW SHIFT

SEQUENCE OF EVENTS THAT HAPPEN WHEN USER TAPS A BUTTON THAT IS ASSIGNED TO A PARTICULAR VIEW





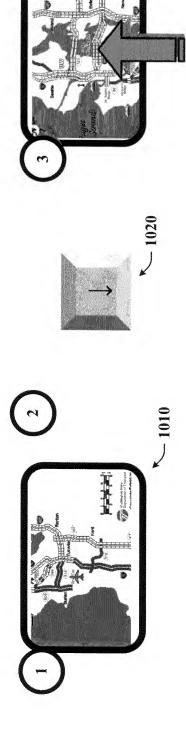


DEFAULT ZOOMED IN PORTION OF THE DATA-SET

USER TAPS (QUICKLY PRESSES AND RELEASES) A HARDWARE BUTTON THAT CORRESPONDS TO A PRE-DEFINED VIEW

THE VIEW SHIFTS "DOWN" TO THE NEW CONFIGURATION

SEQUENCE OF EVENTS THAT HAPPEN WHEN USER TAPS A BUTTON AFTER VIEW HAS ALREADY SHIFTED -TO TOGGLE THE VIEW



THE VIEW IS ALREADY SHIFTED AWAY FROM AN ORIGINAL FOCUS OF INTEREST

USER TAPS (QUICKLY PRESSES AND RELEASES) A HARDWARE BUTTON THAT CORRESPONDS TO A PRE-DEFINED VIEW

THE VIEW SHIFTS BACK "UP"
TO THE ORIGINAL FOCUS OF
INTEREST

SIMPLE SEGMENTATION OF THE MOST ZOOMED OUT VIEW OF A DATA-SET

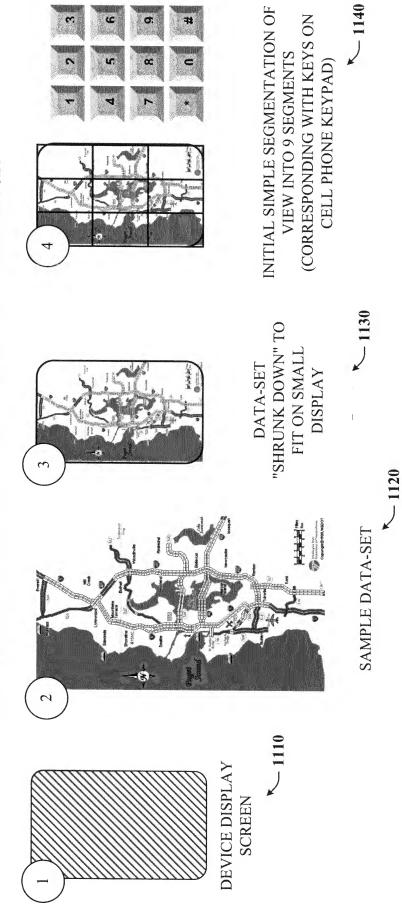


FIG. 11

FIG. 12

LEVEL BUT SHIFTS TO SHOW SEGMENT "4"

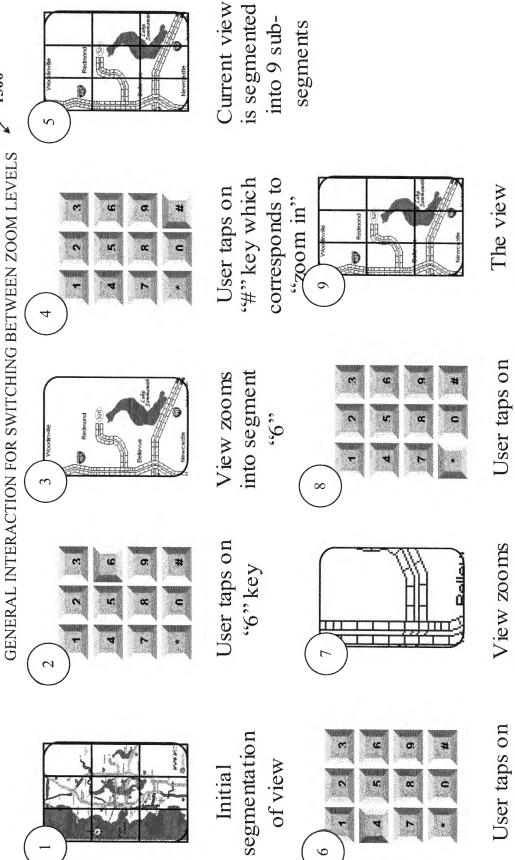
VIEW STAYS AT CURRENT ZOOM

USER TAPS ON "4"

VIEW ZOOMS IN TO JUST SEGMENT "8"

USER TAPS ON "8"

FIG. 13



-1300

out one level

"," key which

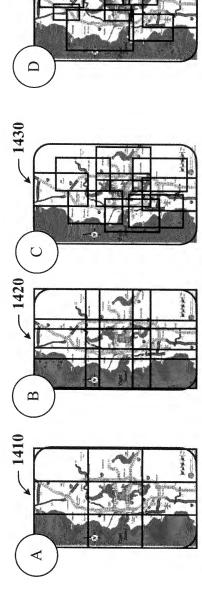
into new subsegment "4"

"4" key

is mapped to "zoom-out"

zooms back The view

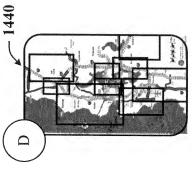
DIFFERENT TYPES OF SEGMENTATION



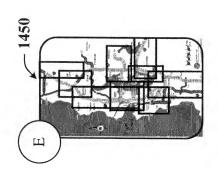
(ADJOINING AREAS WHEN ZOOMED IN) HAVE OVERLAP SEGMENTATION EQUAL AREA, OVERLAPPING SEGMENTATION OVERLAPPING EQUAL AREA,

NON-

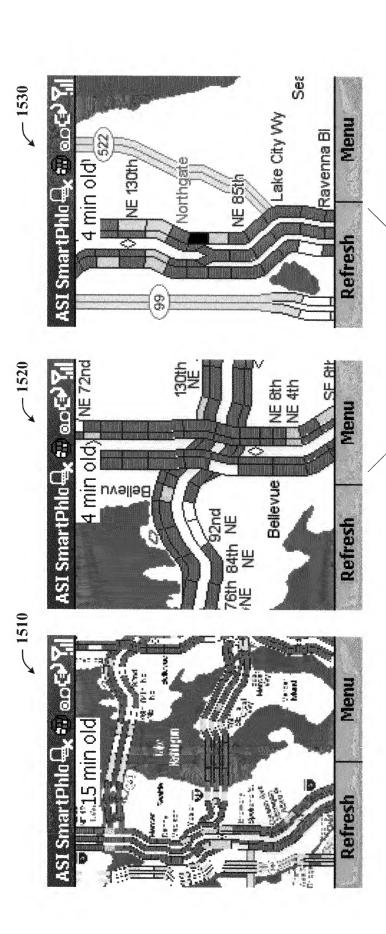
DENSITY AREAS POSITIONED TO WITH HIGHEST CORRESPOND OF DATA-SET **EQUAL AREA**



AREAS OF DATA-SET CORRESPOND WITH NON-EQUAL AREA, HIGHEST DENSITY POSITIONED AND SIZED TO MORE CLOSELY



UNDERLYING DATA NON-EQUAL AREA, AND ARBITRARY ASPECT RATIO REGIONS THAT AND USAGE ADAPT TO



TWO DIFFERENT VIEW SECTORS (AT THE SAME ZOOM LEVEL)

ZOOMED OUT VIEW OF THE

TRAFFIC MAP

FIG. 15

FIG. 17

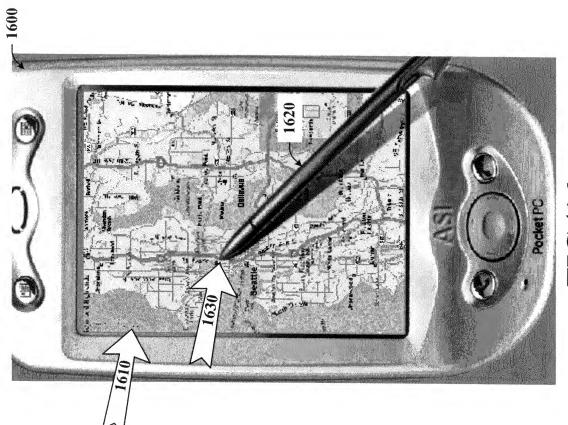
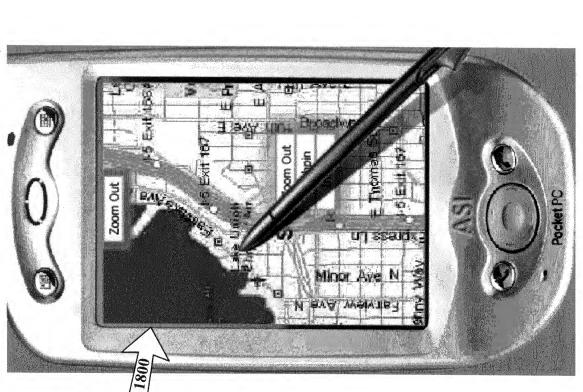
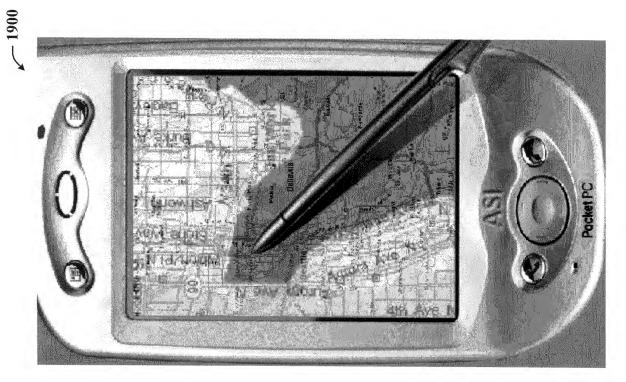
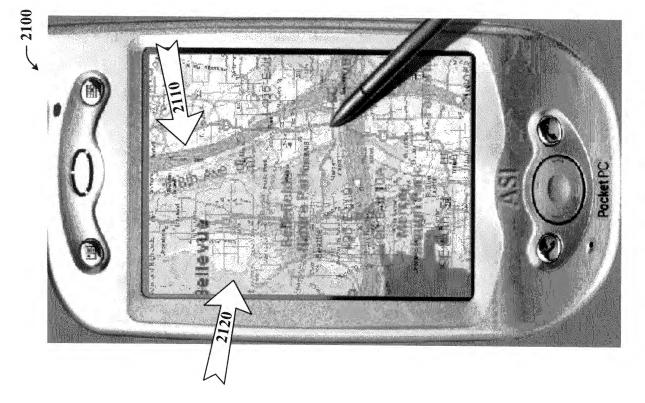


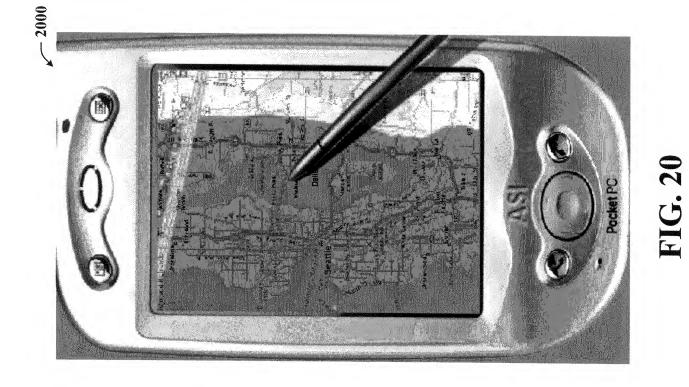
FIG. 16

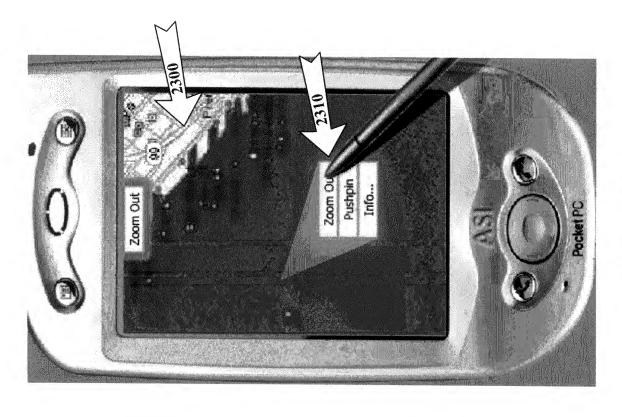


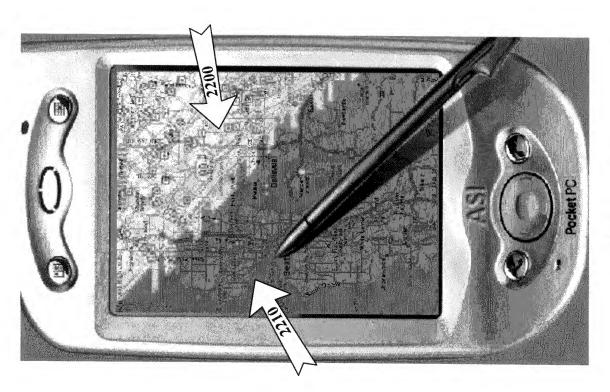


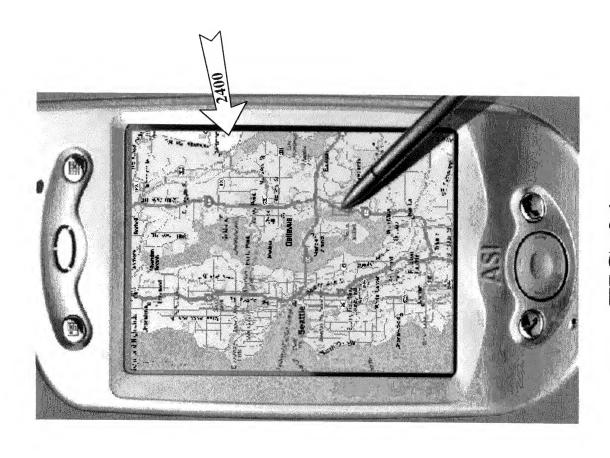
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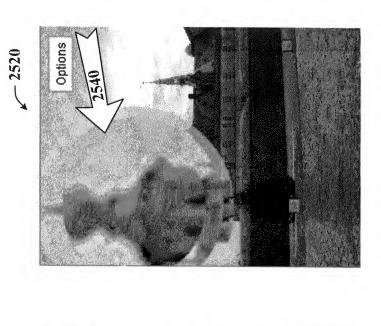


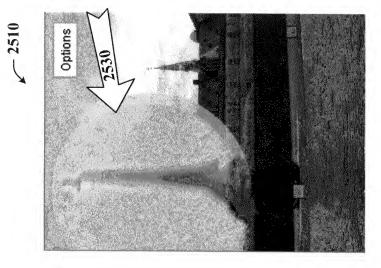


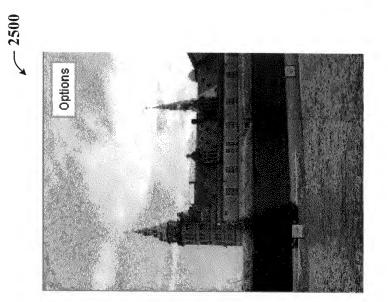










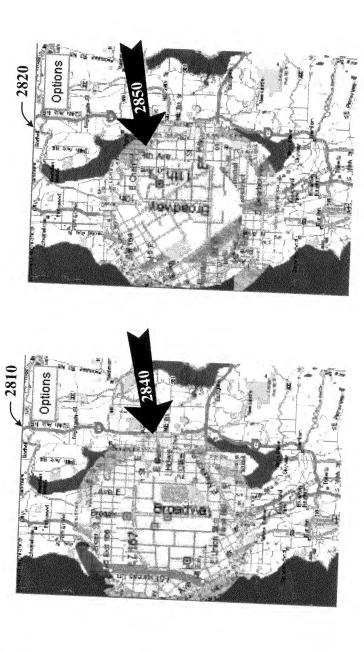


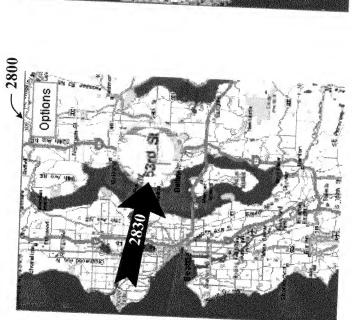
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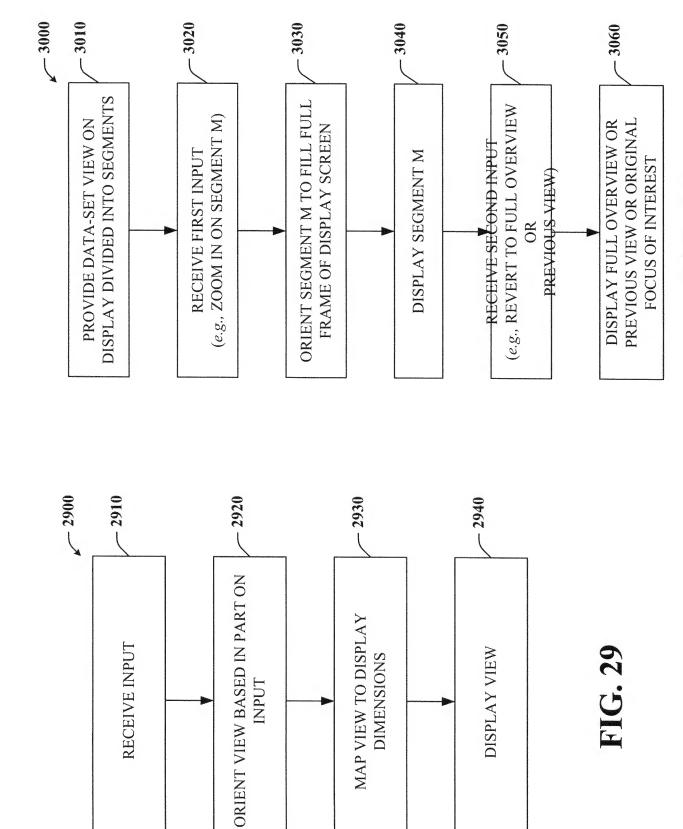


FIG. 30

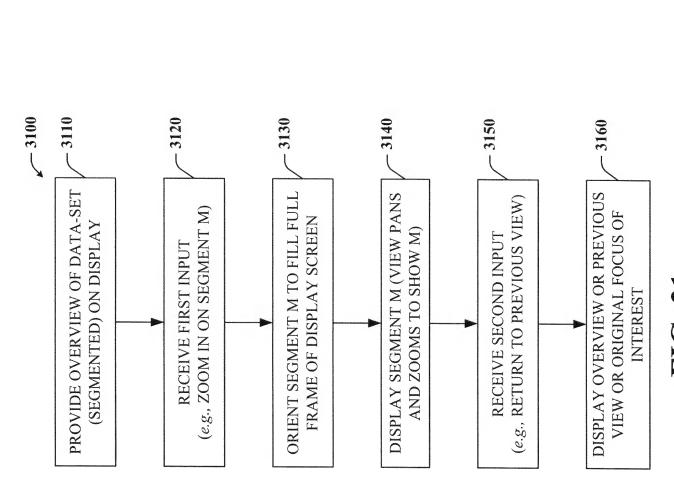


FIG. 31

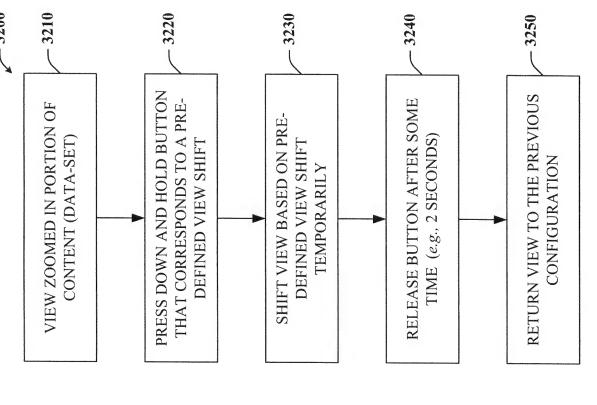


FIG. 32

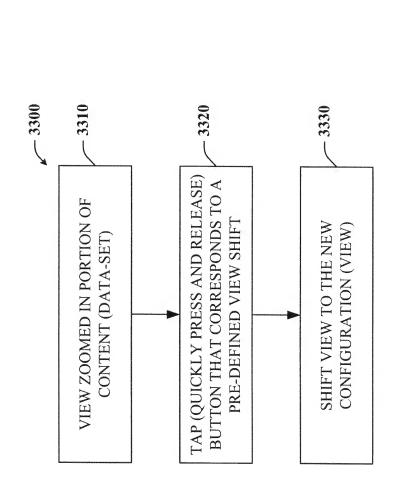


FIG. 33

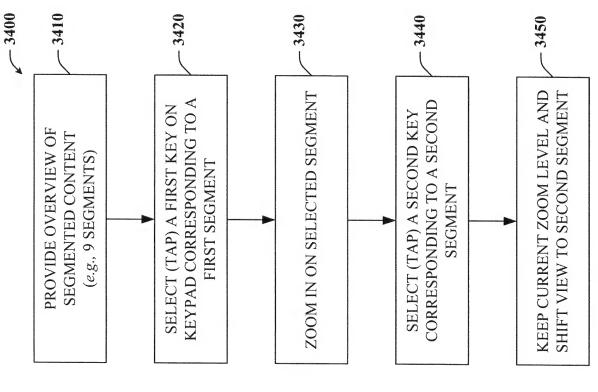


FIG. 34

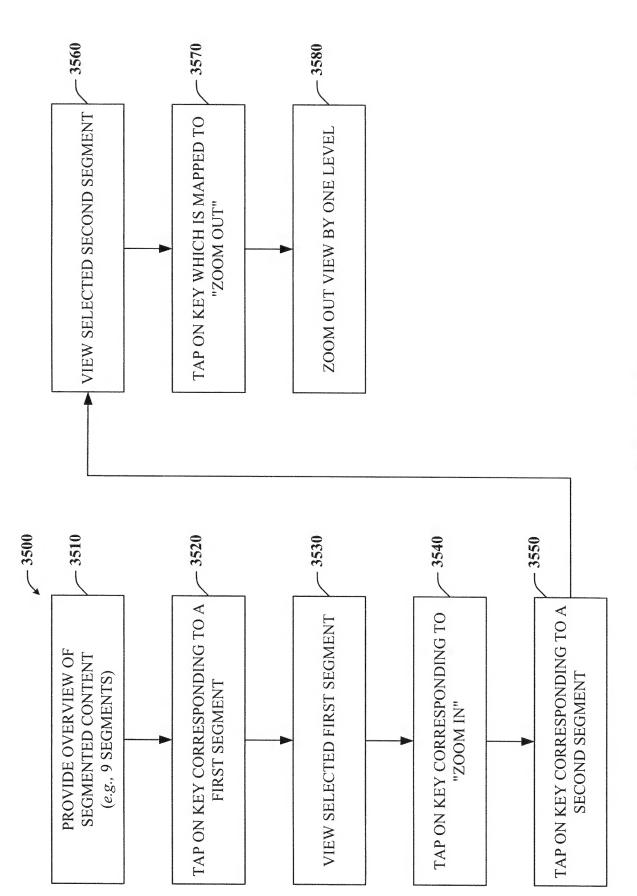


FIG. 35

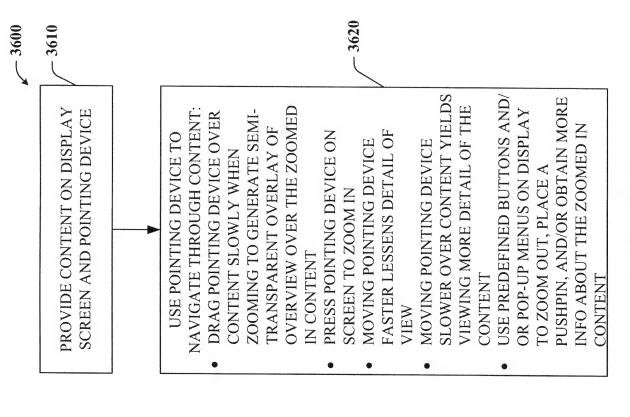


FIG. 36

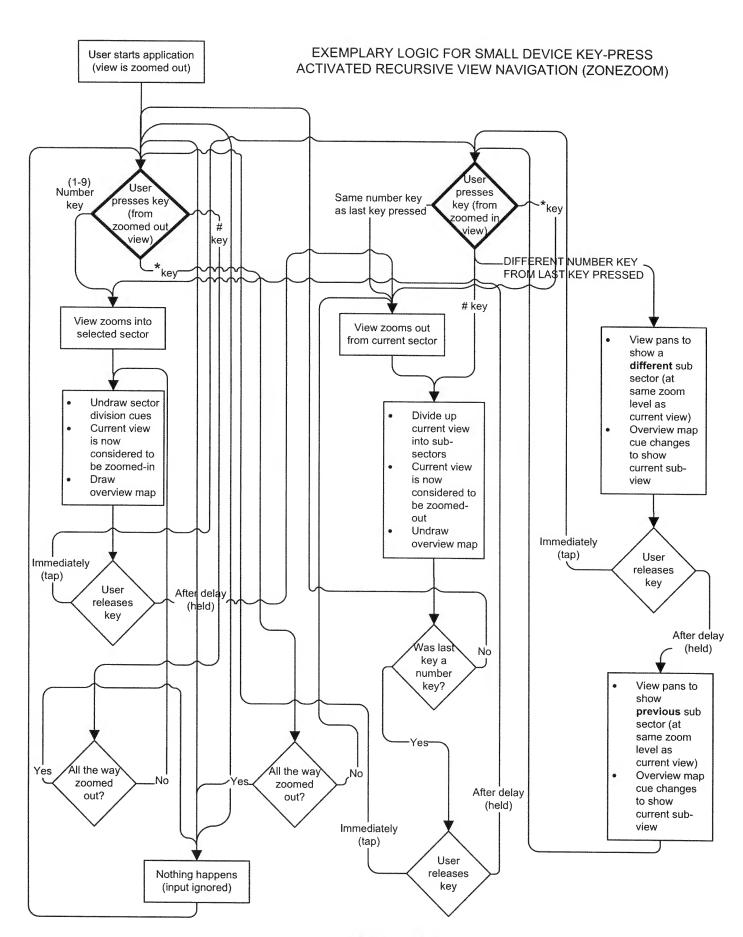


FIG. 37

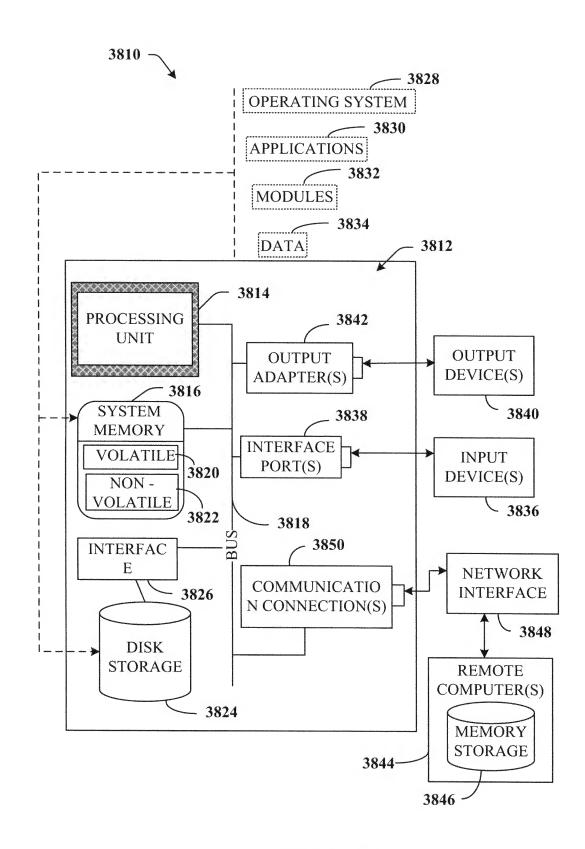


FIG. 38